

P-986A

5 TITLE OF THE INVENTION

Process for Treating Industrial and Municipal

Waste Water Highly Loaded with Ammonium

PS This appl is a DIV of 09/530,621 of 03/00 Pat 6,589,425
 12/05 which is a 371 of PCT/EP98/06880 10/30/98

10 BRIEF SUMMARY OF THE INVENTION

15 The invention concerns a process for treating industrial and municipal waste waters highly loaded with ammonium. In accordance with the invention "ammonium" is understood as meaning both ammonium compounds as well as ammonia.

BACKGROUND OF THE INVENTION

20 Waste water loaded with ammonium, including highly loaded industrial waste water, can be purified in different ways. In the case of physical purification, the pH value is increased by the addition of lye, whereupon ammonia is removed by stripping with steam or with a gas and recovered
 25 by condensation. The profit from the recovered ammonia is very small in comparison with the high investment costs, and, in addition, waste waters can only be purified if they contain less than 100 mg NH_4 - nitrogen ($\text{NH}_4\text{-N}$) per liter in this way.

30 A chemical process for removal is based on the precipitation of magnesium ammonium phosphate. In this case magnesium salts and phosphates are added to the waste water, magnesium ammonium phosphate precipitates out at a specific
 35 pH value. The magnesium ammonium phosphate can be reprocessed by heating, producing magnesium hydrogen phosphate and ammonia, which can be removed by stripping. The magnesium hydrogen phosphate then can be added to the

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Re: U.S. Serial No. 10/613,661
Filed: July 7, 2003
Title: PROCESS FOR TREATING INDUSTRIAL AND
MUNICIPAL WASTE WATER HIGHLY LOADED
WITH AMMONIUM
Confirmation No. 7270 Group Art No. 1724
Attorney Docket No. P-986A

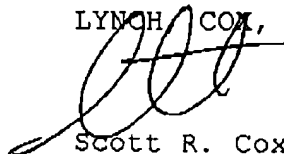
Dear Ms. Small:

This letter is written in response to your telephone call of January 12, 2005, in which you inquired as to the address of the three legal representatives of the inventor Maximilian Hegl. I have been advised that their legal address is Felix-Meindl-Weg 80, 84036 Landshut, Federal Republic of Germany. The post office address is Luitpoldstrasse 30 a, 84034 Landshut, Federal Republic of Germany.

If you have any further questions concerning this matter, please contact me. **Please acknowledge receipt of this letter.**

Sincerely,

LYNCH COX, GILMAN & MAHAN, P.S.C.



Scott R. Cox

SRC:hh